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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/431,703	11/01/1999	STEVEN W. BROWN	APPL-P2822	9101
75	90 06/18/2004		EXAMI	NER
JONATHAN '	VELASCO	PARK, ILWOO		
SIERRA PATE P O BOX 6149	NT GROUP LTD		ART UNIT PAPER NUMBER	
STATELINE, 1	NV 89449		2182 DATE MAILED: 06/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

X

	09/431,703	BROWN, STEVE	1W. Ø			
Office Action Summary	Examiner	Art Unit				
	Ilwoo, Park	2182				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period who is really received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this or D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 15 Ap	oril 2004.					
2a) ☐ This action is FINAL. 2b) ☒ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 10-31 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 10-31 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the $\mathfrak k$	Examiner.				
Applicant may not request that any objection to the		• •				
Replacement drawing sheet(s) including the correcti			• •			
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1	O-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	· F · · · · · · · · · · · · · · · · · · ·					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTC)-152)			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary	Part of Paper No.	/Mail Date 23			

Application

Applicant(s)

Art Unit: 2182

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/15/2004 has been entered.
- 2. Claims 1-9 are canceled and claims 10-31 are presented for examination.
- 3. Shima et al and Levy et al were cited as prior art in the previous office action.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 10-13, 15-17, 21-24, and 26-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Shima et al., US patent No. 6,446,142.

As to claims 10 and 21, Shima et al teach a method for providing a transaction layer [fig. 1] for a module having at least one node connected to a serial bus [IEEE 1394 serial bus] that configures a link device for each of said at least one nodes comprising:

Art Unit: 2182

detecting [col. 3, lines 13-22 and col. 3, lines 34-40] a link driver; receiving [col. 3, lines 13-20; col. 3, lines 38-40; col. 3, lines 61-63] capabilities [col. 3, lines 13-20; col. 5, lines 27-30] of said link driver;

generating [col. 3, lines 41-42; col. 4, lines 1-31] a link driver configuration [object] for said link driver from said capabilities of said driver; and

loading [col. 3, lines 22-37; col. 4, lines 1-31; col. 5, lines 41-47] said link driver configuration into said link driver.

- 6. As to claims 11 and 22, Shima et al teach querying [col. 6, lines 21-25] said link driver for said capabilities.
- 7. As to claims 12 and 23, Shima et al teach receiving said capabilities of said link driver from said link driver [col. 4, lines 7-9; col. 4, lines 21-23].
- 8. As to claims 13 and 24, Shima et al teach storing said capabilities of said link driver [col. 4, lines 18-19].
- 9. As to claims 15 and 26, Shima et al teach receiving configuration information for said link driver [col. 4, lines 7-9; col. 4, lines 21-23].
- 10. As to claims 16 and 27, Shima et al teach generating said link driver configuration from [col. 4, lines 7-9; col. 4, lines 21-23] said capabilities and said configuration information.
- 11. As to claims 17 and 28, Shima et al teach storing said configuration data [col. 4, lines 18-19].

Art Unit: 2182

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 14, 18, 25, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shima et al., US patent No. 6,446,142.

As to claims 14, 18, 25, and 29, Shima et al teach generating a node in a list for said link driver and storing said capabilities of said link driver in a data field of said node. Shima et al do not show the list is in a form of linked list. However, Shima et al teach a linked list form [P1394 standard draft 8.0v2 in col. 1, lines 15-20 disclosing a configuration ROM storing entries for node capabilities within a root directory providing a pointer to another directory which has same structure as the root directory].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have a form of linked list for storing said capabilities for easiness of managing a node by a pointer [col. 6, lines 15-20].

14. Claims 19, 20, 30, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shima et al., US patent No. 6,446,142 in view of Levy et al., US patent No. 6,212,633.

As to claims 19, 20, 30, and 31, Shima et al. do not disclose receiving an input of user defined configuration data for a link driver.

Art Unit: 2182

Levy et al teach a method for configuring a link device of a P1394 serial bus based on capabilities [col. 9, lines 10-26] of a link driver and an input of user defined configuration data received [col. 10, lines 43-55].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Shima et al and Levy et al because they both teach configuring a link device of a P1394 serial bus based on capabilities and Levy et al's teaching of receiving an input of user defined configuration data for a link driver would increase flexibility/user friendliness in dynamically configuring a link device of Shima et al.

Response to Arguments

15. Applicant's arguments filed 10/10/2003 have been fully considered but they are not persuasive.

Applicant argues that equating a link driver and a device driver is inaccurate when link drivers and device drivers are functionally different. For this point, Shima et al teach a plurality of devices [see fig. 2] conforming to IEEE 1394-1995 standard.

Specifically, an appropriate device driver corresponding with a device of a plurality of devices should be identified and loaded in the processor [CPU 42 in fig. 3] in order to point-to-point communicate with each other [col. 3, lines 20-22] while the device of the IEEE 1394-1995 standard is supporting a link layer [fig. 1]. Thus, the device driver of the device supporting the link layer includes a link driver.

Further, A) for a point that Shima does at least not suggest detecting a link driver:

Art Unit: 2182

Without citing of Applicant Admitted Prior Art describing, "During initialization (startup) of a module, certain hardware devices of the module are checked and appropriate drivers are loaded as is known in the art." in page 2, lines 13-14 of the Specification and further citing of prior art, each link driver is loaded in order to communicate with an associated device in accordance with the IEEE 1394-1995 standard. For example, as seen in Shima, in order to communicate [col. 3, lines 13-22; col. 3, lines 38-40] with the new device [col. 3, lines 13-22], an appropriate driver of the device should be searched, found, or detected and loaded.

B) For a point that Shima does not suggest receiving capabilities of the link driver:

According to the IEEE 1394-1995 standard, capabilities are stored in the configuration ROM in a device. Shima teaches firstly, receiving capabilities of the link driver associated with the device by the link driver accessing the configuration ROM of the device in order to generate [col. 3, lines 38-42] an object representing [col. 3, lines 15-16; col. 5, lines 27-30] the capabilities of the device, secondly, receiving capabilities [objects from a library for reconfiguring object: col. 3, lines 13-20] of the link driver associated with the device having resident subunits, and thirdly, receiving capabilities [retrieved subobjects: col. 3, lines 58-61] of the link driver associated with the device having resident subunits.

C) For a point that Shima does not suggest generating a link driver configuration for the link driver from the capabilities received:

Art Unit: 2182

Shima teaches firstly, generating [col. 3, lines 38-42] a link driver configuration [object representing capabilities of the device: col. 3, lines 15-16] for the link driver from the capabilities received and secondly, generating [col. 4, lines 1-10] a link driver configuration (object assembled from retrieved subobjects representing capabilities of resident subunits] for the link driver from the capabilities received.

D) For a point that Shima does not suggest loading link driver configuration into the link driver:

The link driver configuration should be loaded into the link driver to reflect or reconfigure the bus changes or updates [col. 3, lines 22-37; col. 5, lines 41-47] so that the link driver is able to access the device with the capabilities determined [col. 4, lines 1-10].

Conclusion

Any inquiry concerning this communication or earlier communications from the 16. examiner should be directed to Ilwoo Park whose telephone number is (703) 308-7811. The examiner can normally be reached on Monday through Friday from 9:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A Gaffin can be reached on (703) 308-3301. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Art Unit: 2182

Hand-delivered responses should be brought to US Patent and Trademark

Office, 2011 South Clark Place, Customer Window, Crystal Plaza Two, Lobby, Room

1803, Arlington, VA 22202.

Ilwoo Park

Primary Examiner

June 12, 2004